

BY: \$USERNAME\$

DRILL HOLES

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7/23/2012 11:37:15 AM

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF RED LIGHT CAMERA EQUIPMENT TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF US 29 (COLUMBIA PIKE) NB/SB AND TECH RD.

LANES MONITORED SB - 1 DEDICATED LEFT, 3 THRU, AND 1 DEDICATED RIGHT.  
LANES MONITORED NB - 2 DEDICATED LEFT, 3 THRU, AND 1 DEDICATED RIGHT.

INTERSECTION OPERATION

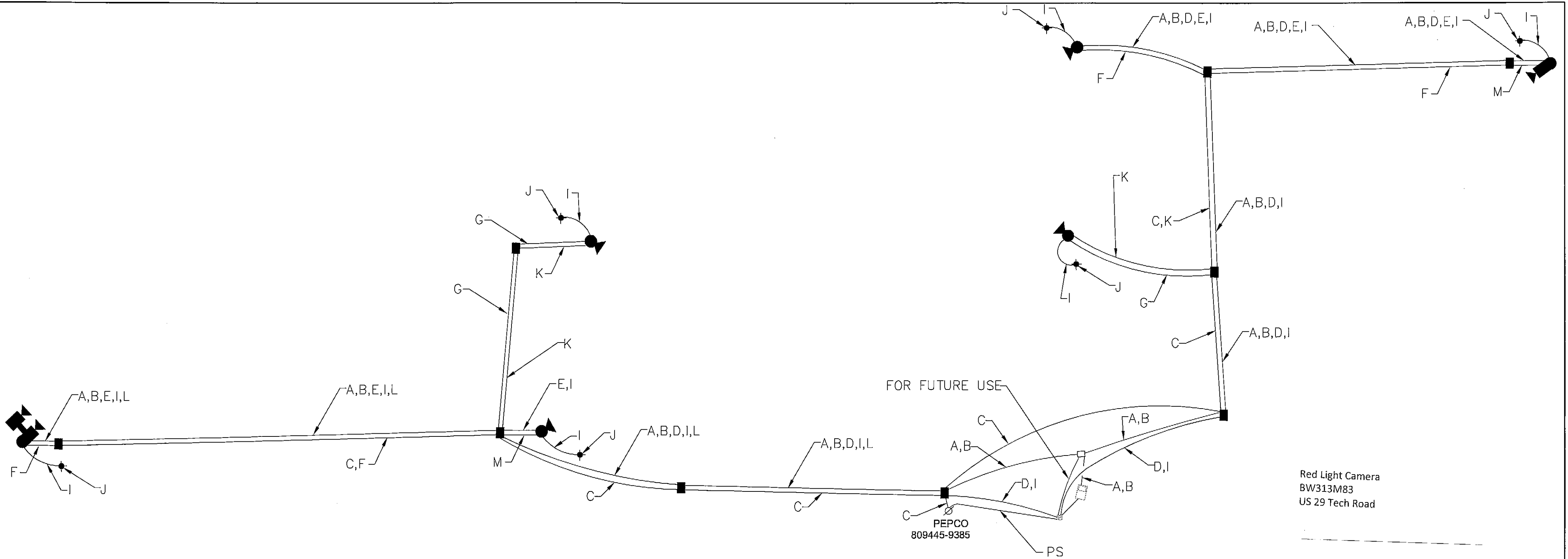
THE INTERSECTION OPERATION WILL REMAIN UNCHANGED.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE SHA  
NONE

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
6	CY	TEST PIT EXCAVATION
3	EA	RLCS-1 CAMERA ASSEMBLY
6	EA	RLCS-1 FLASH ASSEMBLY
4	EA	SENSYS RECEIVER ASSEMBLY
6	EA	14' PEDESTAL POLE
1	EA	CAMERA ATTACHMENT BRACKET
1	EA	100 AMP METER SERVICE PEDESTAL WITH BYPASS SWITCH AS SHOWN
830	LF	2 IN PVC CONDUIT (SCHEDULE 80) - TRENCHED
730	LF	4 IN PVC CONDUIT (SCHEDULE 80) - BORED
1775	LF	115 V POWER SIGNAL PHASE-7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
8	EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
720	LF	POWER (3) #10 CONDUCTORS THHN (HOT, NEUTRAL, AND GROUND)
600	LF	CAT 5e SHIELDED (BELDEN 7919A OR EQ.)
520	LF	115 V POWER 4 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
900	LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
25	LF	(3) 1-CONDUCTOR CABLE (NO. 8 AWG)
8.25	CY	CONCRETE FOR PEDESTAL POLE FOUNDATIONS
		(1) 3" PVC 90, (1) 2" PVC 90 AND (1) 1" PVC 90 EACH



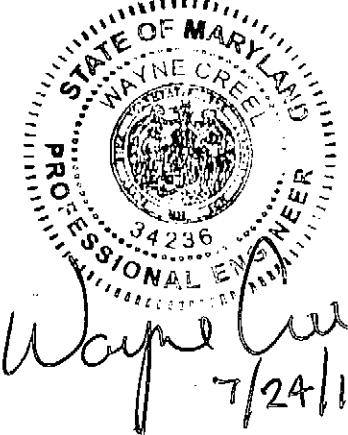
WIRING KEY

- A 7-CONDUCTOR CABLE (NO. 14 AWG) THRU LANES/DEDICATED RIGHT  
A1 (2) 7-CONDUCTOR CABLE (NO. 14 AWG) THRU LANES/DEDICATED RIGHT  
B 7-CONDUCTOR CABLE (NO. 14 AWG) LEFT HAND TURN LANE  
B1 (2) 7-CONDUCTOR CABLE (NO. 14 AWG) LEFT HAND TURN LANE  
C COMCAST TO PROVIDE CABLE  
D (3) #10 CONDUCTORS THHN (HOT, NEUTRAL, GROUND)  
E (2) 4-CONDUCTOR CABLE (NO. 14 AWG)  
F (5) CAT 5e SHIELDED (BELDEN 7919a OR EQ.)  
G (1) 4-CONDUCTOR CABLE (NO. 14 AWG)  
H (3) 1-CONDUCTOR CABLE (NO. 8 AWG)  
I STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)  
J PROPOSED GROUND ROD - 3/4 IN. X 10 FT. LENGTH  
K (1) CAT 5E SHIELDED (BELDEN 7919a OR EQ.)  
L (6) #10 CONDUCTORS THHN (HOT, NEUTRAL, GROUND)  
M (4) CAT 5e SHIELDED (BELDEN 7919a OR EQ.)  
PS PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY PEPCO

NOTE: ALL CAT 5E CABLE TERMINATIONS WILL REQUIRE SENTINEL 106S08080058C34 ENDS AND A SENTINEL 90007 RATCHET HAND TOOL

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY WITH ACS CONSTRUCTION MANAGER AND SHA INSPECTOR ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF RED LIGHT EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- THE CONTRACTOR IS TO BE AWARE THAT THE SHA HAS EXISTING UNDERGROUND CONDUITS, TRAFFIC SIGNAL INTERCONNECT CABLES AND ROADS SIGN IN THE VICINITY OF PROPOSED EQUIPMENT. ANY DAMAGE TO THESE FACILITY'S AS A RESULT OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR HIS CLIENT TO REPAIR OR REPLACE.
- CONTACT MONTGOMERY COUNTY SIGNAL SHOP (301-279-1291) AT LEAST 72 HOURS IN ADVANCE OF PROPOSED WORK TO ARRANGE FOR CABINET WIRING  
\* MONTGOMERY COUNTY ENGINEER - KAMAL HAMUD 240-777-8761  
\* MONTGOMERY COUNTY TECHNICIAN SUPERVISOR ROBERT RICKETS 240-876-3681
- CONTACT SHA TRAFFIC CONTROL DEVICE INSPECTION SECTION AT LEAST 72 HOURS IN ADVANCE OF ANY WORK TO ARRANGE FOR INSPECTION SERVICES  
\* SHA INSPECTION TEAM LEADER - ADRIAN PUGH 410-787-7645



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION SHEET  
US 29 (COLUMBIA PIKE) NB/SB AND TECH RD.  
WHITE OAK, MD.

APPROVALS	REVISIONS	SCALE NONE ADVERTISED DATE 06/12/12 CONTRACT NO.
TEAM LEADER		DESIGNED BY
ASST. DIV. CHIEF		DRAWN BY
DIVISION CHIEF		CHECKED BY
OFFICE DIRECTOR		F.A.P. NO.
		TOD NO.
		DRAWING NO. TS# 22.72 OF
		SHEET NO. 2 OF 2

PLOTTED: \$DATE\$  
FILE: \$FILE\$

ACS  
A xerox Company  
12410 MILESTONE CENTER DR. 4TH FLOOR  
GERMANTOWN, MD 20876